

AVANTIX

Avancement CBE

AVANTIX

Bases de travail

BT702 vs BT706 vs BT702

```
# bt702: Spécialiser chaque branche sur les impulsions ayant le npersegopt adapté était une erreur. Du coup aucune spécialisation + ajout des pmods
# bt703: Aucune spécialisation + ajout des pmods + threshold_dB = 6 (précédemment égal à 3)
# bt704: target_snrs = list(range(8, 16)) + list(range(17, 26, 4)) -> targeted_snrs = [12, 18, 24] + threshold_dB = 7
# bt705: target_snrs = target_snrs = 30 + threshold_dB = 10. BUG: Some pulses are not labelised even though they were expected to be deleted from iq
# bt706: target_snrs = target_snrs = 30 + threshold_dB = 10 FIXED
# bt707: Pareil que 706 sauf qu'on met threshold_dB=3 dans la fct generate_sxx_nsxx_mask L=79
```



Apprentissage sans sous-échantillonnage

Budget GFLOPs

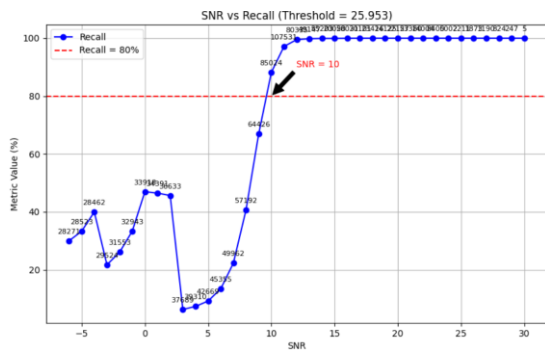
nperseg	Down time	Down freq	Down time x Down Freq	GFLOPs max
256	16	1	16	1
512	8	1	8	2
1024	4	1	4	4,5
4096	2	1	2	9
16384	2	4	8	2
131072	2	8	16	1

Budget sans sous-échantillonnage par branche = 1,2

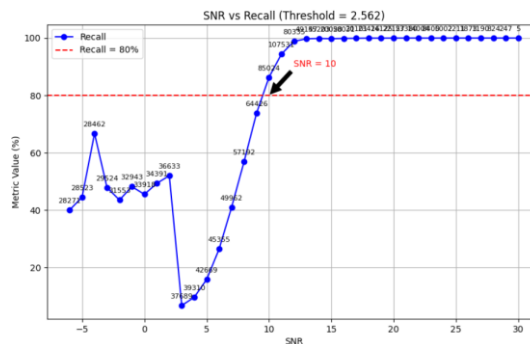
IA + seuillage du SXX pour avoir un recall de 100% au-delà de 15dB

Résultats 256

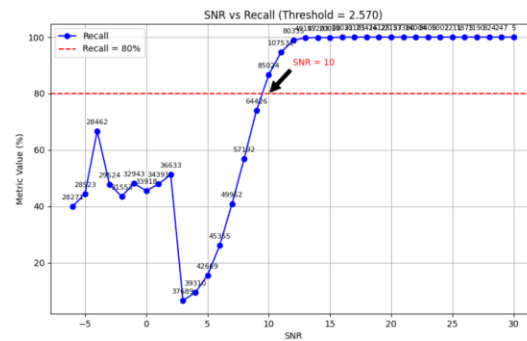
4 kernels fixées + channel max
PRAUC = 93,4



1 couche + channel average
PRAUC = 96,9

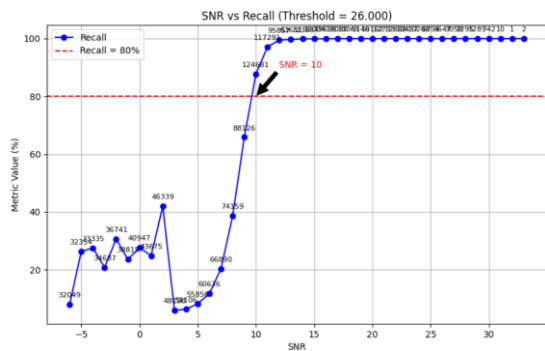


1 couche + channel average +
Seuillage
PRAUC = 96,9

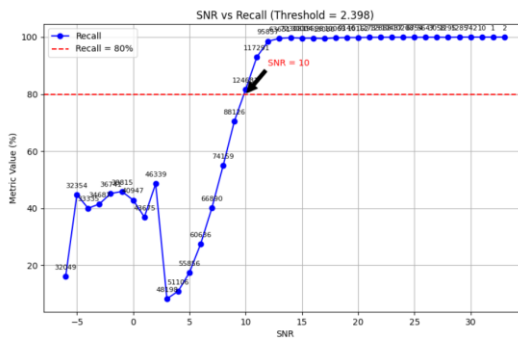


Résultats 512

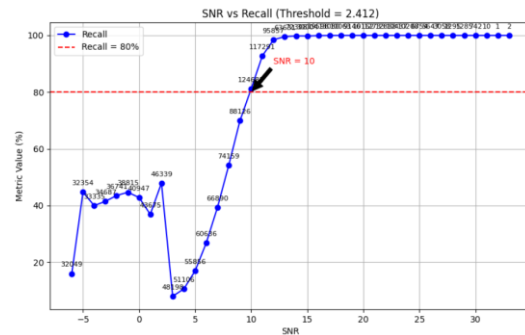
4 kernels fixées + channel max
PRAUC = 92,8



1 couche + channel average
PRAUC = 97,0

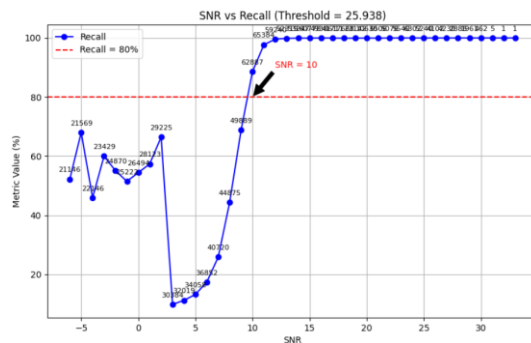


1 couche + channel average +
Seuillage
PRAUC = 97,1

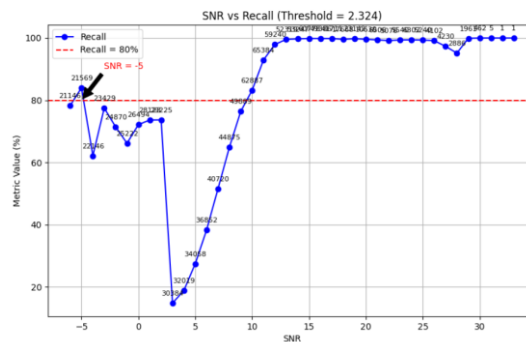


Résultats 1024

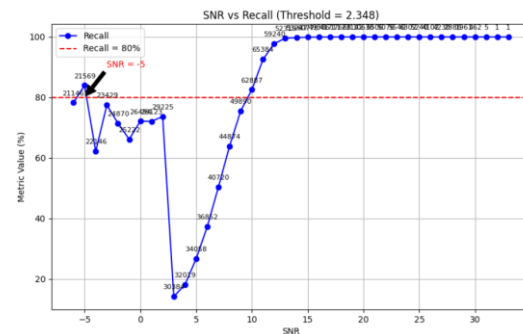
4 kernels fixées + channel max
PRAUC = 94,4



1 couche + channel average
PRAUC = 96,7

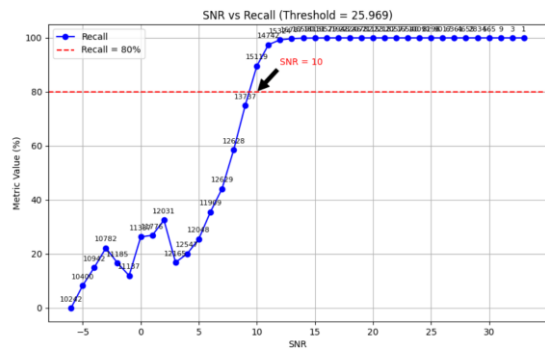


1 couche + channel average +
Seuillage
PRAUC = 96,7

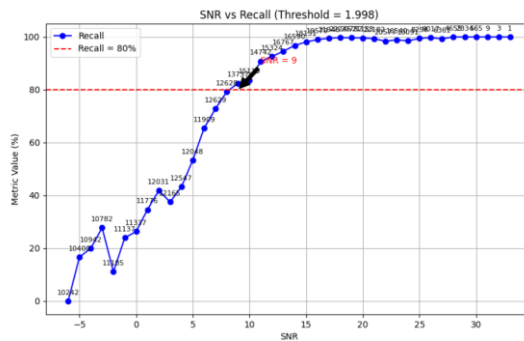


Résultats 4096

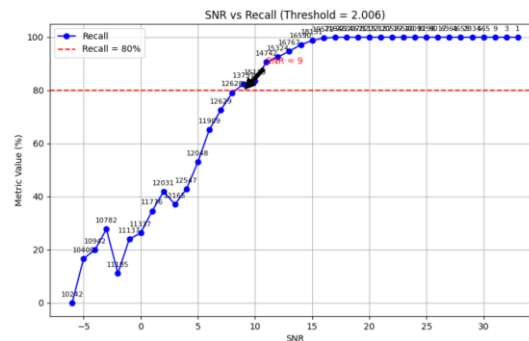
4 kernels fixées + channel max
PRAUC = 95,7



1 couche + channel average
PRAUC = 96,3

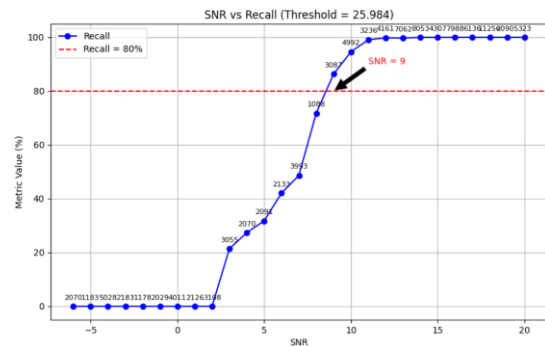


1 couche + channel average
+ Seuillage
PRAUC = 96,6



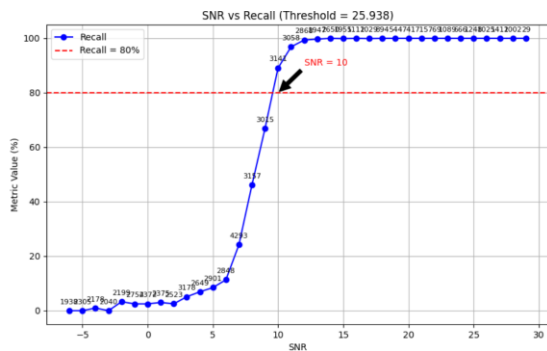
Résultats 16384

4 kernels fixées + channel max
PRAUC = 97,7

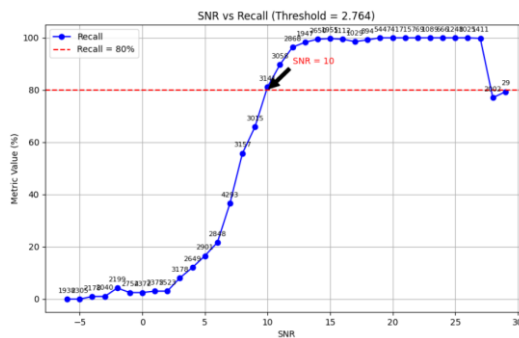


Résultats 131072

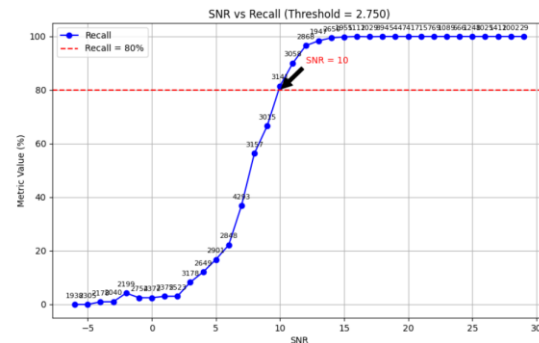
4 kernels fixées + channel max
PRAUC = 76,7



1 couche + channel average
PRAUC = 79,9



1 couche + channel average +
Seuillage
PRAUC = 80,1



End2End : IA vs FixedConvs vs IA+Threshold

AVANTIX

MERCI